



Water-Data Report 2008

01407081 RARITAN BAY AT KEANSBURG, NJ

RARITAN BAY

LOCATION.--Lat 40°26'57", long 74°08'51" referenced to North American Datum of 1983, Keansburg Borough, Monmouth County, NJ, Hydrologic Unit 02030104, on south bank at Bayshore Flood Control Station in Keansburg, 20 ft downstream from tide gate, 0.3 mi downstream from bridge over Waackaack Creek on Laurel Avenue, and 1.3 mi east of Union Beach.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Unpublished fragmentary gage-height record, September 1997 to October 2000. Continuous-record tide gage, November 2000 to current year.

GAGE.--Water-stage, air temperature, water temperature, wind speed and direction, barometric pressure, and rainfall recorder. Datum of gage is at 0.00 ft NAVD of 1988. To determine approximate elevations to NGVD of 1929 datum, add 1.18 ft. To determine approximate elevations to Mean Lower Low Water datum, add 3.10 ft (revised to Tidal Epoch 1983-2001).

REMARKS.--Missing gage-height record Jun 10-12 and portions of other days. Summaries for months with short periods of missing gage-height record have been estimated with little or no loss of accuracy. Some periods cannot be estimated and are noted by dashed (---) lines. Satellite stage and weather telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 5.46 ft, Dec 25, 2002. Minimum recorded elevation, -6.02 ft, Mar 9, 2008.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum known elevation, 7.9 ft (adjusted to NAVD of 1988), Nov 25, 1950, from high-water mark in Keansburg (prior to installation of flood gate), published in the report "Tidal Flood Plain Information - Sandy Hook Bay and Raritan Bay Shore Areas, Monmouth County, New Jersey, July 1972," by the U.S. Army Corp of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.23 ft, May 12; minimum elevation recorded, -6.02 ft, Mar 9.

Statistics of Tide Elevations, in feet
Water Year October 2007 to September 2008
[e, estimated]

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	2.49	0.11	-2.32
November	2.15	-0.19	-2.63
December	1.98	-0.37	-2.81
CALENDAR YEAR 2007	2.22	-0.13	-2.61
January	1.99	e-0.3	e-2.7
February	1.84	-0.38	-2.88
March	1.96	-0.37	-2.76
April	2.32	-0.01	-2.46
May	2.68	0.29	-2.22
June	e2.5	e0.0	e-2.5
July	2.40	-0.01	-2.53
August	2.53	0.08	-2.43
September	2.62	0.23	-2.21
WATER YEAR 2008	2.29	-0.07	-2.54

01407081 RARITAN BAY AT KEANSBURG, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	High-high	Mean	Low-low									
	October			November			December			January		
1	3.33	0.02	-2.67	2.13	-0.31	-2.69	0.64	-1.52	-3.48	1.49	-0.32	-2.96
2	2.85	0.09	-2.13	2.36	0.24	-1.81	1.53	-0.34	-2.31	1.23	-0.96	-3.11
3	2.47	0.09	-1.93	3.52	1.40	-1.58	2.53	-0.77	-3.96	1.00	---	---
4	2.18	0.02	-2.28	2.02	-0.22	-2.89	0.29	-1.71	-3.72	1.56	---	---
5	2.09	-0.04	-2.56	2.20	-0.04	-2.57	1.59	-0.47	-2.26	---	---	---
6	2.15	-0.07	-2.21	2.96	-0.02	-2.72	1.92	-0.29	-2.67	1.84	-0.48	-3.08
7	3.00	0.29	-2.69	1.71	-0.56	-3.03	2.10	-0.50	-3.07	2.43	-0.23	-2.95
8	2.77	0.34	-2.32	2.50	-0.09	-2.74	1.94	-0.77	-3.30	2.46	-0.35	-3.04
9	3.61	0.88	-2.29	2.64	0.10	-2.43	2.05	-0.65	-3.39	2.87	-0.50	-3.82
10	3.87	1.00	-1.74	3.25	0.52	-1.94	2.41	-0.23	-3.00	2.18	-0.68	-3.65
11	3.75	1.23	-1.49	2.93	0.34	-2.09	2.50	-0.29	-2.91	3.30	0.09	-2.82
12	3.01	0.27	-2.21	2.13	-0.33	-2.86	2.14	-0.83	-3.64	2.51	-0.22	-3.15
13	2.67	0.04	-2.51	2.20	-0.19	-2.44	2.54	-0.10	-2.90	2.74	0.24	-2.48
14	2.24	-0.24	-2.65	2.32	0.04	-1.97	2.30	-0.16	-2.84	3.21	0.71	-1.97
15	2.20	-0.20	-2.19	2.52	-0.06	-2.90	1.96	-0.21	-2.65	2.68	-0.22	-2.87
16	2.14	-0.16	-2.24	0.73	-1.03	-3.35	4.80	1.29	-2.77	2.18	-0.88	-3.26
17	2.08	0.00	-1.69	1.36	-0.96	-2.81	0.67	-2.40	-4.51	2.68	0.01	-2.17
18	2.23	0.16	-1.45	1.90	-0.21	-2.24	1.12	-1.20	-3.51	3.46	-0.12	-3.36
19	2.61	0.52	-1.14	2.44	0.27	-2.11	2.07	-0.32	-2.95	2.10	-0.54	-3.37
20	2.28	0.06	-2.47	2.55	0.04	-3.03	2.88	-0.16	-2.97	2.89	-0.71	-3.56
21	1.84	-0.44	-3.05	2.78	0.24	-2.72	3.75	0.98	-2.06	1.83	---	-4.43
22	2.27	-0.26	-3.05	3.72	0.34	-2.71	4.09	0.50	-2.59	2.39	---	-4.64
23	2.89	0.05	-2.87	3.28	-0.40	-4.04	3.85	0.44	-3.02	2.63	-0.90	-4.20
24	2.84	-0.09	-3.41	3.33	-0.42	-4.02	3.25	-0.67	-4.27	2.97	-0.45	-3.70
25	4.08	0.65	-3.35	3.13	-0.62	-4.13	2.67	-1.04	-4.25	2.05	---	-3.63
26	4.36	0.76	-2.83	3.51	-0.24	-3.67	3.30	-0.14	-3.80	2.48	---	---
27	4.41	0.27	-3.15	2.70	-0.95	-4.12	4.00	0.62	-2.37	2.41	0.32	-2.02
28	2.95	-0.57	-3.73	2.24	-1.13	-4.49	2.38	-0.16	-2.87	3.21	0.69	-1.64
29	3.35	-0.38	-3.34	2.41	-0.54	-2.91	2.54	0.04	-2.42	2.82	0.31	-1.67
30	2.70	-0.55	-3.19	1.70	-0.98	-3.02	1.86	-0.08	-2.36	2.56	-0.67	-2.91
31	2.47	-0.31	-2.63	---	---	---	3.37	-0.26	-2.99	0.94	-1.04	-2.27
Max	4.41	1.23	-1.14	3.72	1.40	-1.58	4.80	1.29	-2.06	3.46	0.71	-1.64
Min	1.84	-0.57	-3.73	0.73	-1.13	-4.49	0.29	-2.40	-4.51	0.94	-1.04	-4.64

01407081 RARITAN BAY AT KEANSBURG, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	High-high	Mean	Low-low									
	February			March			April			May		
1	2.06	0.49	-1.71	1.87	-0.57	-2.46	1.44	-0.64	-2.93	2.39	0.13	-2.54
2	1.24	-1.35	-3.27	0.38	-1.27	-3.07	0.80	-1.22	-3.90	3.20	0.40	-2.53
3	1.25	-0.95	-3.05	1.26	-0.59	-2.66	1.80	-0.94	-3.99	4.40	0.96	-2.30
4	2.01	-0.30	-2.66	1.57	-0.43	-3.14	2.74	-0.27	-3.60	3.85	0.49	-3.12
5	2.72	0.02	-2.75	3.47	-0.16	-3.83	3.32	-0.03	-3.70	4.06	0.07	-3.46
6	3.10	0.13	-3.14	2.45	-0.35	-3.39	4.27	0.47	-3.36	4.03	0.00	-3.43
7	3.43	0.22	-3.18	3.65	0.18	-3.09	4.64	0.70	-2.76	4.05	0.01	-3.51
8	3.66	0.29	-2.74	3.70	0.21	-2.74	3.62	0.26	-3.02	3.30	-0.10	-3.11
9	3.08	0.03	-3.08	1.40	-2.61	-6.02	3.32	-0.17	-3.06	3.77	0.59	-3.02
10	2.91	-0.83	-4.01	2.36	-1.30	-4.63	2.07	-0.27	-2.94	4.00	0.71	-1.76
11	0.34	---	-5.33	2.30	-0.50	-3.59	2.80	-0.03	-2.75	3.36	1.03	-1.51
12	0.88	---	---	3.07	-0.41	-3.28	3.19	0.26	-2.08	5.23	2.53	0.17
13	2.99	0.24	-2.75	2.26	-0.22	-2.91	2.76	0.12	-2.19	3.49	1.18	-1.18
14	2.70	-0.45	-2.68	2.85	0.14	-2.33	2.13	-0.03	-2.55	2.73	0.56	-2.01
15	2.32	-0.88	-3.19	3.29	0.64	-1.66	1.98	-0.22	-2.78	2.84	0.56	-1.88
16	1.78	-0.75	-3.19	3.80	0.85	-2.24	2.04	-0.28	-3.01	3.45	0.78	-1.82
17	2.35	-0.16	-2.85	2.18	-0.11	-2.48	2.64	-0.01	-2.84	2.94	0.51	-2.15
18	2.98	0.01	-3.26	2.99	0.65	-2.10	2.75	0.16	-2.74	3.17	0.52	-2.17
19	2.45	-1.00	-4.68	3.66	1.06	-1.90	2.88	0.07	-2.67	2.35	-0.09	-2.48
20	1.79	-1.26	-4.79	3.06	0.16	-2.44	3.33	0.37	-2.53	2.97	0.12	-2.87
21	2.12	-0.86	-4.23	1.42	-1.56	-4.51	2.75	0.24	-2.23	2.82	0.26	-2.82
22	3.04	-0.17	-3.62	2.38	-0.94	-4.47	2.37	-0.13	-2.67	2.32	0.00	-2.30
23	2.91	0.00	-2.96	2.26	-0.59	-3.42	2.25	-0.22	-2.70	2.28	-0.28	-2.90
24	1.98	-0.36	-3.18	2.00	-0.58	-3.19	2.02	-0.34	-2.69	2.18	-0.04	-2.43
25	1.75	-0.55	-2.95	2.44	-0.27	-3.01	1.51	-0.10	-2.40	1.52	-0.14	-2.42
26	2.62	0.09	-2.60	1.71	-0.65	-2.87	2.17	0.49	-1.58	1.99	-0.20	-2.55
27	1.14	-0.26	-2.21	0.94	-0.48	-2.39	2.37	0.37	-1.42	1.77	-0.41	-2.87
28	1.37	-1.18	-2.88	2.06	-0.08	-1.65	2.35	0.73	-0.72	1.66	-0.36	-2.44
29	1.24	-0.52	-1.87	1.42	-0.60	-2.21	2.47	0.29	-1.70	1.77	-0.50	-3.00
30	---	---	---	1.31	-0.68	-2.06	2.12	0.06	-2.19	2.40	-0.38	-3.23
31	---	---	---	1.19	-0.42	-2.19	---	---	---	2.73	0.00	-2.77
Max	3.66	0.49	-1.71	3.80	1.06	-1.65	4.64	0.73	-0.72	5.23	2.53	0.17
Min	0.34	-1.35	-5.33	0.38	-2.61	-6.02	0.80	-1.22	-3.99	1.52	-0.50	-3.51

01407081 RARITAN BAY AT KEANSBURG, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	High-high	Mean	Low-low									
	June			July			August			September		
1	3.25	-0.08	-3.27	3.69	0.15	-2.92	3.92	0.33	-3.14	2.94	-0.18	-3.30
2	3.51	-0.06	-3.34	3.69	-0.04	-3.25	3.77	0.32	-3.10	2.94	0.05	-3.07
3	3.88	-0.12	-3.68	3.50	-0.24	-3.58	3.11	0.09	-3.03	3.24	0.37	-2.27
4	3.94	0.03	-3.44	3.61	-0.22	-3.80	2.80	-0.09	-3.32	2.50	0.02	-2.34
5	3.76	-0.10	-3.79	3.40	0.00	-3.43	2.89	0.06	-2.87	2.24	-0.10	-2.12
6	3.29	-0.17	-3.19	2.94	-0.07	-3.25	2.80	0.26	-2.27	2.61	0.55	-1.45
7	2.38	-0.29	-3.34	2.51	-0.12	-2.98	2.76	0.36	-1.90	2.12	-0.42	-2.05
8	2.68	-0.25	-3.19	2.40	-0.18	-2.82	2.71	0.35	-1.50	1.58	-0.22	-1.98
9	2.59	-0.09	-2.78	2.14	-0.14	-2.41	2.25	0.11	-1.66	1.77	0.04	-1.81
10	---	---	---	2.11	-0.13	-2.34	2.31	0.21	-1.47	2.25	0.04	-2.10
11	---	---	---	2.16	-0.02	-2.17	1.96	0.28	-1.88	2.14	-0.04	-1.82
12	---	---	---	2.04	-0.02	-1.97	2.18	0.14	-1.38	2.59	0.06	-2.39
13	2.20	---	---	2.47	0.13	-1.76	2.50	0.14	-2.16	2.99	0.10	-2.58
14	2.69	0.12	-2.37	2.42	0.13	-1.95	3.17	0.28	-2.16	3.32	0.42	-2.40
15	3.17	0.45	-1.92	2.50	0.02	-2.01	3.17	0.32	-2.13	2.79	-0.05	-3.11
16	3.30	0.52	-1.74	2.62	0.01	-2.33	2.91	-0.01	-2.67	3.12	-0.03	-3.33
17	2.76	0.39	-2.04	2.73	-0.05	-2.49	2.95	-0.07	-3.02	3.42	0.04	-3.14
18	2.85	0.35	-2.25	2.69	-0.10	-2.74	2.77	-0.20	-3.29	3.38	0.03	-3.23
19	2.88	0.27	-2.28	2.61	-0.19	-2.81	2.60	-0.19	-3.32	4.06	0.61	-2.28
20	2.73	0.09	-2.58	2.63	-0.17	-3.08	2.71	-0.17	-2.90	3.18	0.24	-2.24
21	2.56	-0.05	-2.62	2.58	-0.05	-3.06	2.61	-0.33	-3.34	2.63	-0.04	-2.37
22	2.62	-0.01	-2.73	2.38	0.01	-2.89	2.62	-0.35	-2.96	2.72	0.15	-1.99
23	2.39	0.06	-2.42	2.58	0.12	-2.73	2.42	-0.24	-2.68	2.89	0.45	-1.95
24	1.84	-0.17	-2.76	2.71	0.02	-2.50	2.65	-0.10	-2.44	2.97	0.51	-1.85
25	1.96	-0.37	-2.91	2.29	-0.16	-2.78	2.76	-0.03	-2.44	3.75	1.15	-1.18
26	2.28	-0.12	-2.64	2.62	-0.12	-2.60	2.75	0.09	-2.62	3.92	1.16	-1.67
27	2.51	0.08	-2.61	2.90	0.12	-2.24	3.02	0.23	-2.37	3.40	0.52	-2.36
28	3.03	0.23	-2.29	3.16	0.23	-2.52	3.48	0.29	-2.69	3.56	0.57	-2.53
29	3.45	0.32	-2.46	3.22	0.11	-2.71	3.71	0.44	-2.60	3.44	0.38	-2.56
30	3.59	0.21	-2.89	3.62	0.21	-3.00	3.38	0.14	-3.07	3.43	0.45	-2.43
31	---	---	---	3.86	0.36	-2.82	2.94	-0.09	-3.30	---	---	---
Max	3.94	0.52	-1.74	3.86	0.36	-1.76	3.92	0.44	-1.38	4.06	1.16	-1.18
Min	1.84	-0.37	-3.79	2.04	-0.24	-3.80	1.96	-0.35	-3.34	1.58	-0.42	-3.33

01407081 RARITAN BAY AT KEANSBURG, NJ—Continued

